



Course Code BADM-491	Course Title Special Topics in Business: Digital Currency & Blockchain Technology	ECTS Credits 6
Prerequisites None	Department Management & MIS	Semester Fall
Type of Course Elective	Field Business/MIS	Language of Instruction English
Level of Course 1 st cycle	Lecturer(s) Mr. Andreas Vlachos	Year of Study 3 rd or 4 th
Mode of Delivery DL/ Face to Face	Work Placement N/A	Co-requisites N/A

Objectives of the Course:

The main objectives of the course are to:

- Provide an overview of blockchain technology as the backbone of decentralized digital currencies (cryptocurrencies), such as Bitcoin.
- Examine the theory and principles by which Blockchains operate
- Provide practical examples of basic cryptocurrency transactions
- Introduce smart contracts over blockchains.

Learning Outcomes:

After completion of the course students are expected to be able to:

1. Demonstrate how blockchain technology works.
2. Discuss and place cryptocurrencies and Blockchain activities, within an appropriate technical, currency, regulatory, legal and monetary context.
3. Master basic usage skills around Bitcoin.
4. Discuss how the innovative nature and usability of smart contracts.

Course Contents:

1. History of Money
2. Introduction to CryptoCurrencies
3. Become a Cryptocurrency user
4. Exploring Bitcoin transactions
5. Cryptocurrency Wallet Protection
6. Cryptocurrencies beyond Bitcoin
7. Introduction to Blockchains
8. Public Vs Private Blockchains
9. Smart Contract Fundamentals
10. Ethereum Smart Contracts
11. Blockchain Applications I
12. Blockchain Applications II

Learning Activities and Teaching Methods:

Lectures, Practical Assignments, Theoretical Assignments

Assessment Methods:

- Assignment: 20%
- Mid-Term Examination: 20%
- Final Examination: 60%

Required Textbooks / Reading:

Title	Author(s)	Publisher	Year
Bitcoin and Cryptocurrency Technologies: A Comprehensive Introduction	Arvind Narayanan, Steven Goldfeder	Princeton University Press	2016,
Blockchain Revolution: How the Technology Behind Bitcoin Is Changing Money, Business and the World	Don Tapscott, Alex Tapscott	Penguin Books Limited	2016

Recomended Textbooks / Reading:

Title	Author(s)	Publisher	Year
Mastering Bitcoin	Andreas Antonopoulos	O'Reilly Publishing	2014